

ABSTRACT

Packaging machine, used to pack with several turns of laminal material objects piled up on a platform, until conforming a package or "pallet" firmly wrapped to be afterward elevated by means of a freight elevator and to be transferred to another location, for example, towards a deposit for its storage or to load them in vehicles destined to transport them to another destiny, including said cart a chassis with elevating members where a roll or coil of laminal material is mounted in supporting connection on a support device, where the elevating members of the coil of laminal material are defined by a type-scissors mechanism, in one of whose superior arms is mounted in supporting connection said material coil carry support device, including the cart an operation control electronic unit that allows to controlling the machine remotely.

The machine is defined by a self-propelled cart mounted in a sliding way on an annular rail that delimits a circular surface where the platform with the objects to be packed is located. The cart presents a chassis where a type scissors mechanism is mounted, being said mechanism formed by a plurality of articulated to each other arms, in whose upper arm end portion the laminal material roll or coil, which extends raising and lowering the laminal material during the packaging or "palletizing" process. The propulsion is obtained by means of a traction motor to which a traction wheel is connected, whereas the ascending and descendent movement of the scissors type mechanism is driven by a motor which an endless screw connected to one of the lower arms of the scissors type mechanism. Reloadable batteries are arranged in the chassis of the cart to provide power supply to both motors and to an electronic operation control unit on of the machine, remotely commanded and wireless form, arranged in the chassis of the cart. The machine includes sensors that detect the upper end portion of the pallet, the presence of strange objects in the surface delimited by the annular rail and sensors that allow the machine to always stop in a same point of the rail when finishing a packaging cycle.